TEAC

SERVICE MANUAL



TEAC CORPORATION

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MA1000E100

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GENERAL INTRODUCTION

The TEAC AS-100 is a newly designed stereo integrated amplifier of the highest quality utilizing the latest circuit theory in its manufacture. It's special features include a differential type power amplifier unit which is direct coupled throughout all stages, and an electronic protective circuit for the purpose of preventing speaker damage from any malfunction.

This Service Manual is intended for reference and assistance to service engineers who maintain and repair the AS-100.

The Model AS-100 amplifier is thoroughly inspected and adjusted, mechanically and electrically, prior to shipment from the factory and is thus guaranteed to give perfect performance on opening the shipping carton. Although this amplifier utilizes unique circuits, quick repair is made possible by refering to this manual. The amplifier is designed for easy servicing.

This manual avoids extensive explanations and instead presents all printed circuit board patterns, circuit diagrams and ample photos for quick comprehension of parts layout. In the PC patterns, external circuits and their connecting points at each board are included for easy circuit tracing. Furthermore, codes and numbers are clearly indicated in the parts list and photos of parts layout for convenience in ordering parts.

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SPECIFICATIONS

All silicone transistor integrated amplifier Type

(26 silicone transistors, 2 ICs, 2 thyristors,

9 diodes)

Circuit Differential quasi-complementry SEPP

POWER AMPLIFIER SECTION

Rated power 60W(both channel operate THD 0.2% 8 ohms load)

40W/40W(each channel operate THD 0.2% 8 ohms load)

Harmonic distortion below 0.2% rated power

below 0.1% 0.1W

IM distortion below 0.2% rated power

Power bandwidth 10 - 40,000Hz -3dB

Frequency response 5 - 200,000Hz+0, -2dB at 1W

Signal to noise ratio better than 90dB

Residual system noise below 0.6mV

Input sensitivity 1V for rated power

Input impedance 50,000 ohms Output load impedance 4 - 16 ohms

PREAMPLIFIER SECTION

Inputs Phono-1, 2: 2mV (input impedance 50,000 ohms)

Tuner: 150mV (input impedance 50,000 ohms) AUX-1, 2: 150mV (input impedance 50,000 ohms)

Tape deck play: 150mV (input impedance 60,000 ohms)

Outputs Output voltage: 1V at rated input

Record out: 150mV at rated input

Frequency response 10 - 50,000Hz 1dB

Signal to noise ratio Phono inputs: 70dB

AUX inputs: 80dB

Tone control 100Hz: 10dB, 10,000Hz: 10dB

50Hz: +7dB, 10,000Hz: +4dB Loudness control

Low cut: 100Hz, 6dB/oct Filter High cut: 8,000Hz, 6dB/oct

100/117/220/240V AC 50/60Hz (US Model is 117V only) Power requirements

Power consumption 15W at no signal

160W at rated power

Switched: 200W max. AC outlet

Unswitched: 200W max.

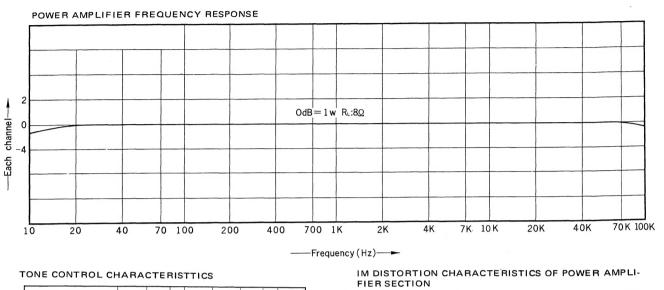
 $141(H) \times 410(W) \times 328(D)$ mm Dimensions

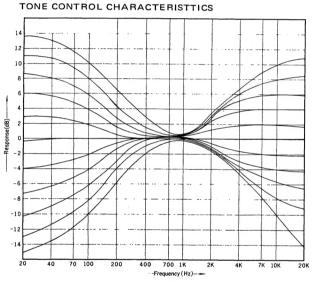
5-9/16"(H) x 16-1/8"(W) x 12-15/16"(D)

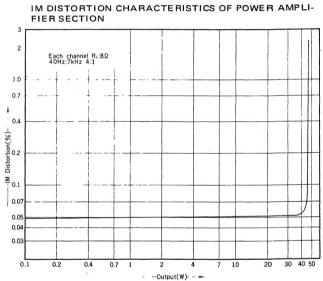
10kg, 22 lbs, net Weight

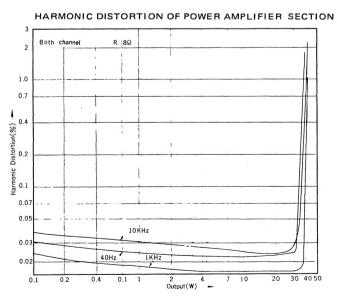
Features and specifications subject to change without notice.

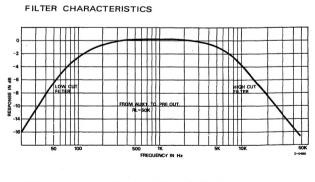
CHARACTERISTICS CURVES

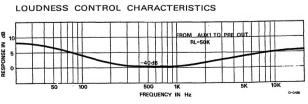






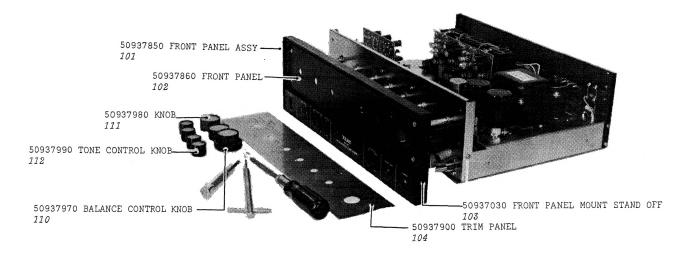






PARTS LAYOUT AND PARTS LIST T334

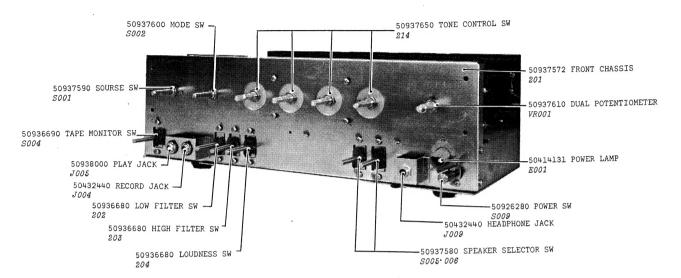
FRONT PANEL ASSY



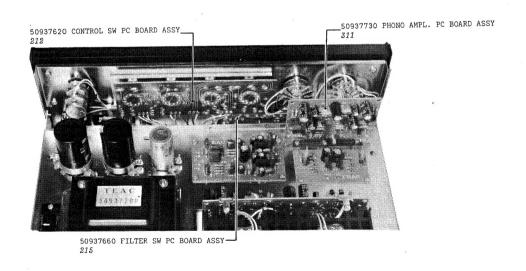
FRONT PANEL REMOVAL

REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
101	50937850	Panel Assy, Front		
102	50937860	Panel, Front		
103	50937030	Stand Off, Front Panel Mount, x 4		
104	50937900	Panel, Trim		
105	50937260	Trim Sash, x 2		
106	50928730	Escutcheon, Power Push Button		
107	50937940	Escutcheon, Phone Jack, x 3		
108	50937070	Escutcheon, Lever SW Knob, x 6		
109	50937960	Lens, Lamp, Small	1	
110	50937970	Knob, Balance Control		
111	50937980	Knob, Volume, x 3	1	
112	50937990	Knob, Tone Control, x 4		

FRONT CHASSIS



SWITCHES AND POTENTIOMETERS

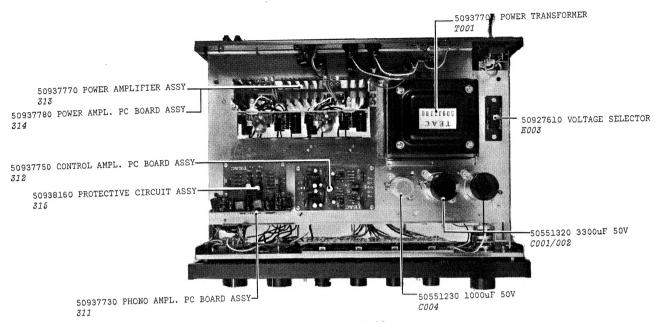


VIEW FROM ABOVE REAR

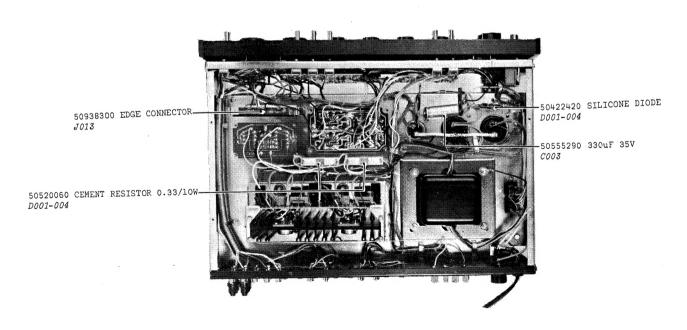
FRONT CHASSIS

REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
201	50937572	Chassis, Front		
202	50936680	SW, Low Filter, Lever		
203	50936680	SW, High Filter, Lever		
204	50936680	SW, Loudness, Lever		
205	50921152	Tube, Lamp		
206	50415030	Socket, Lamp		
207	50938190	Pipe, B, Shield		
208	50937240	Clamp, Cable		1
209	50937220	Lever Knob Sheet, x 6		
210	50937110	Knob, Lever SW, x 6		
211	50937270	Button, Power SW		
212	50937620	PC Board Assy, Control SW		
213	50937630	Bracket, Control SW Mount		
214	50937650	SW, Tone Control, x 4		
215	50937660	PC Board Assy, Filter SW	v	
E001	50414131	Lamp, Power ON Indicator		
E004	50529060	CR Unit, Spark-Killer 0.033uF+120 ohm		
J004	50432440	Jack, Record 3 cond		
J005	50938000	Jack, Play 3 cond, with SW		
J009	50432440	Jack, Headphone 3 cond		
R009-012	50513970	Resistor, Carbon 4.7k 1/4W 10%		
R011 • 012	50527050	Resistor, Metal Oxide Film 470 ohm 1W 10%		
S001	50937590	SW, Sourse		
S002	50937600	SW, Mode		
S004	50936690	SW, Tape Monitor Lever		
S005 · 006	50937580	SW, Speaker Selector, Lever		
S009	50926280	SW, Power, Push Button		
VR001	50937610	Potentiometer, Dual,		
•		Volume & Balance		
				1

MAIN CHASSIS



TOP VIEW

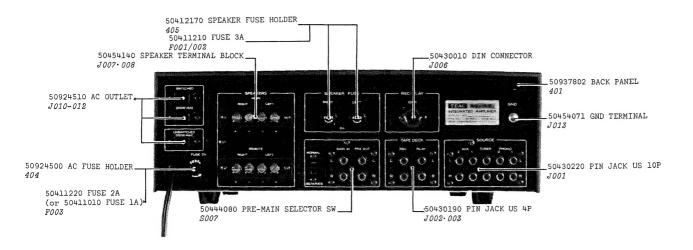


BOTTOM VIEW

MAIN CHASSIS

REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
301	50937680	Chassis, Main		
302	50937690	Pipe, A, Shield		
303	50452060	Terminal Strip, 1L2P, x 2		
304	50452090	Terminal Strip, 1L4P, x 2		
<i>305</i>	50923780	Grommet, Cable, x 2		
306	50937710	Cover, Bottom		
307	50283830	Mount Foot, x 4		
308	50938200	Cushion, Phono Amplifier		
309	50937720	Cover, Top		
310	50937240	Clamp, Cable, x 7		
311	50937730	PC Board Assy, Phono Ampl.		
312	50937750	PC Board Assy, Control Ampl.		
313	50937770	Power Amplifier Assy		
314	50937780	PC Board Assy, Power Ampl.		
<i>315</i>	50938160	PC Board Assy, Protective Circuit		
C001/002	50551220	Cap., Electrolytic 3300/50V	50551320	
C003	50555290	Cap., Electrolytic 330/35V		
C004	50551230	Cap., Electrolytic 1000/50V	50551310	
D001-004	50422420	Diode, Silicone IS-1072	,	
D 005	50422430	Diode, Silicone VO6C		
E003	50927610	Voltage Selector, AC Power		
J013	50938300	Connector, Edge 14P Phono Ampl. Receptacle		
R015/016	50520060	Resistor, Cement 0.33/10W 20%		
R017	50527060	Resistor, Metal Oxide Film 1k/1W 10%	-	
T001	50937700	Transformer, Power		

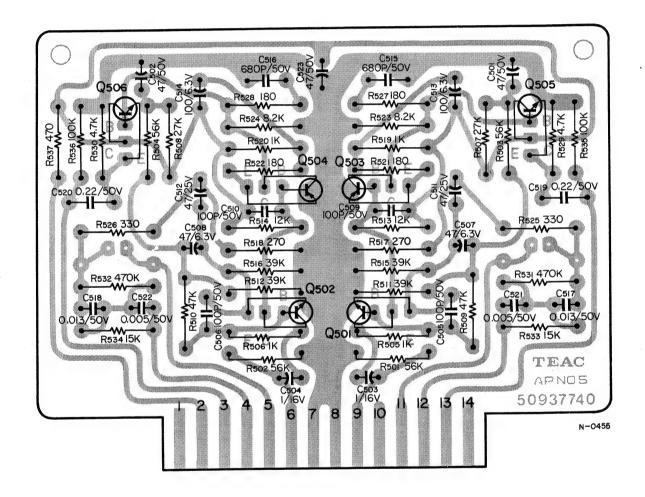
BACK PANEL



REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
401	50937802	Panel, Back		
402	50271670	Grommet, AC Cord		
403	50471651	Cord, AC		
404	50924500	Fuse Holder, AC		
405	50412170	Fuse Holder, Speaker, x 2		
406	50452500	Terminal Strip, 1L4P Small		
407	50430171	Short Pin Plug, x 4		
C005	50541110	Cap., Oil-Filled 0.0047/450V		
F001/002	50411210	Fuse, 3A, x 2		
F003	50411220	Fuse, 2A (AC 100, 117V only)		
F003	50411010	Fuse, 1A (AC 220, 240V only)		
J001	50430220	Pin Jack, US 10P		
J002·003	50430190	Pin Jack, US 4P, x 2		
J006	50430010	Connector, DIN		
J007•008	50454140	Terminal Block, Speaker 4P		
J010-012	50924510	Receptacle, AC Outlet		
J013	50454071	GND Terminal		
R001/002	50513570	Resistor, Carbon 10k 1/4W 10%		
	50518910	Resistor, Carbon 390k 1/4W 10%		
R005/006	50513700	Resistor, Carbon 100k 1/4W 10%		
S007	50444080	SW, Slide, Pre-Main Selector		

PRINTED CIRCUIT SORD AND PARTS LIST AS-100

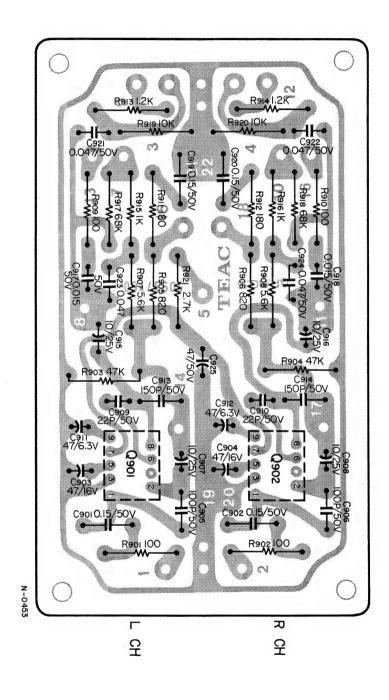
PHONO AMPLIFIER



PHONO AMPLIFIER

CIRCUIT REF NO.	PARTS NO.	DESCRIPTION			1ST	2ND
	50937730	PC Board Assy	, Phono			
	50937740	PC Board, Pho	no Amplifier			
	TRANSISTORS					
Q501/502 Q503/504 Q505/506	50424100 50424110 50423500	2SC 1000-GR 2SA 493-GR 2SC 734-Y				
	CARBON RESIS	STORS				
	RS IN OHM, 10% LESS OTHERWISE					
R501/502	50513990	56k				
R503/504	50513990	56k		}		
R505/506	50513430	1k				
R507/508	50513860	27k				
R509/510	50513870	47k				
R511/512	50519440	39k				
R513/514	50513580	12k 39k		1		
R515/516 R517/518	50519440 50519280	270				
R519/520	50513280	1k				
R521/522	50518770	180				
R523/524	50518830	8.2k		1		
R525/526	50519290	330				
R527/528	50518770	180				
R529/530	50513970	4.7k				
R531/532	50518370	470k				
R533/534	50513590	15k				
R535/536	50513700	100k				
R537	50519600	470				
	CAPACITORS					
ALL CAPACITE OTHERWISE N	ORS IN MICRO FA OTED.	ARADS UNLESS				
C501/502	50554580	Electrolytic	47/150V			
C503/504	50546180	Tantalum 1	1/16V			
C505/506	50543400	Dipped Mica	100p/50V/10%			
C507/508	50554030	Electrolytic	47/6.3V			
C509/510	50543400	Dipped Mica	100p/50V/10%			
C511/512	50554020	Electrolytic	47/25V			
C513/514	50554230	Electrolytic	100/6.3V			
C515/516	50543430	Dipped Mica	680p/50V/10%			
C517/518	50547990	Mylar	0.013/50V/5%			
C519/520	50548660	Mylar	0.022/50V/10%			
C521/522	50548050	Mylar	0.005/50V/10%			
C523	50554580	Electrolytic	47/50V			

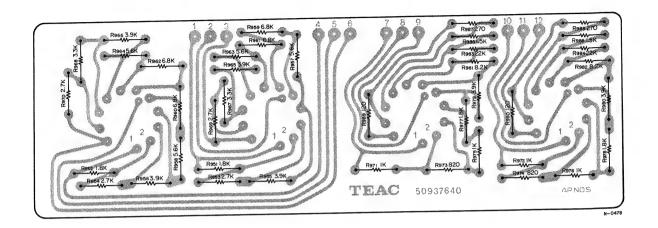
CONTROL AMPLIFIER



CONTROL AMPLIFIER

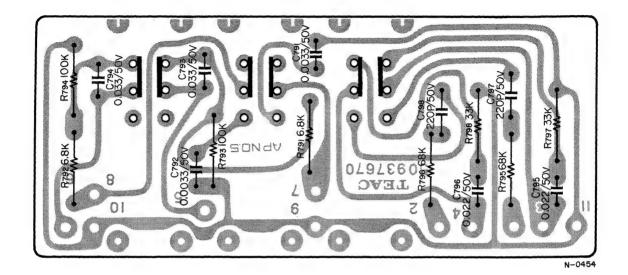
CIRCUIT REF NO.	PARTS NO.	DESCRIPTION			1ST	2ND
	50937750	PC Board Ass	y, Control			
	50937760	PC Board, Con	ntrol Amplifier	,		
	INTEGRATED (CIRCUIT				
Q901/902	50427080 CARBON RESIS	IC, 42708 STORS				
	RS IN OHM, 10% LESS OTHERWISE					
R901/902 R903/904 R905/906 R907/908 R909/910 R911/912 R913/914 R915/916 R917/918 R917/918 R919/920	50513300 50513870 50518800 50513880 50513300 50518770 50513440 50513430 50519190 50513570 50518050 CAPACITORS	100k 47k 820 5.6k 100 180 1.2k 1k 68k 10k 2.7k				
ALL CAPACIA OTHERWISE 1 C901/902 C903/904 C905/906 C907/908 C909/910 C911/912 C913/914 C915/916 C917/918 C917/918 C919/920 C921/922 C923/924	TORS IN MICRO FANOTED. 50548312 50554430 50543400 50554040 50543330 50554030 50554040 50548420 50548310 50548270 50548270	Mylar Electrolytic Dipped Mica Electrolytic Dipped Mica Electrolytic Dipped Mica Electrolytic Mylar Mylar Mylar Mylar Mylar	100p/50V/10%			

CONTROL SWITCH



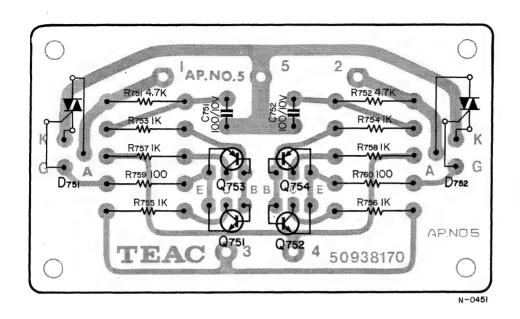
CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50937620	PC Board Assy, Control SW		
	50937640	PC Board, Control SW		
	50937630	Bracket, Control SW Mount	,	
	50937650	SW, Tone Control, x 4		
	CARBON RESI	STORS		
ALL RESISTS	ORS IN OHM, 10%	TOLERANCE,		
1/4 WATT U	NLESS OTHERWISE	NOTED.		
R951/952	50519590	1.8k		
R953/954	50518050	2.7k		
R955/956	50513940	3.9k		
R957/958	50513880	5.6k		
R959/960	50519230	6.8k		
R961/962	50519230	6.8k		
R963/964	50513880	5.6k		
R965/966	50513940	3.9k		
R967/968	50513960	3.3k		
R969/970	50518050	2.7k		
R971/972	50513430	1k		
R973/974	50518800	820	·	
R975/976	50513430	1k		
R977/978	50519590	1.8k		
R979/980	50513940	3.9k		
R981/982	50518830	8.2k		
R983/984	50513610	22k		
R985/986	50513450	1.5k		
R987/988	50519280	270		
R989/990	50513310	120	I	1

FILTER SWITCH



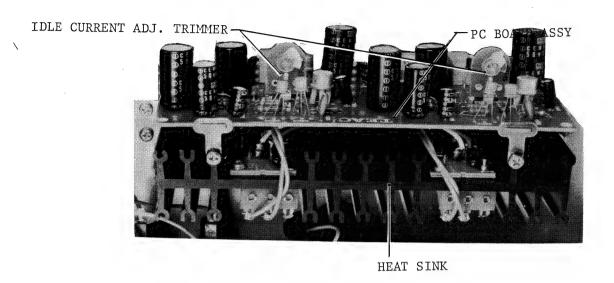
CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50937660	PC Board Assy, Filter SW	·	
	50937670	PC Board, Filter SW		
	CARBON RESIS	STORS		
R791/792 R793/794 R795/796 R797/798	50519230 50513700 50519190 50519170	6.8k ohm 1/4W 10% 100k ohm 1/4W 10% 68k ohm 1/4W 10% 33k ohm 1/4W 10%		
	CAPACITORS			
C791/792 C793/794 C795/796 C797/798	50548300 50548240 50548290 50543420	Mylar 0.0033uF 50V 10% Mylar 0.033uF 50V 10% Mylar 0.022uF 50V 10% Dipped Mica 220pF 50V 10%		

PROTECTIVE CIRCUIT



CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50938160	PC Board Assy, Protective Circuit		
	50938170	PC Board, Protective Circuit		
	SILICONE TRA	NSISTORS		
Q751/752 Q753/754	50423500 50423531	2SC 734-Y 2SA 561-Y		
	THYRISTOR			
D751/752	50428020	Triac SM2D41		
	CARBON RESIS	STORS		
R751/752 R753/754 R755/756 R757/758 R759/760	50513970 50513430 50513430 50513430 50513300	1k ohm 1/4W 10% 1k ohm 1/4W 10%		
	BIPOLAR CAPA	ACITORS		
C751/752	50549230	100uF 10V		.•

POWER AMPLIFIER ASSEMBLY



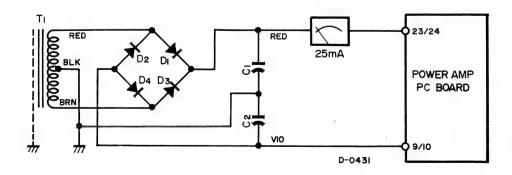
IDLE CURRENT ADJUSTMENT PROCEDURE

CURRENT ADJUSTING

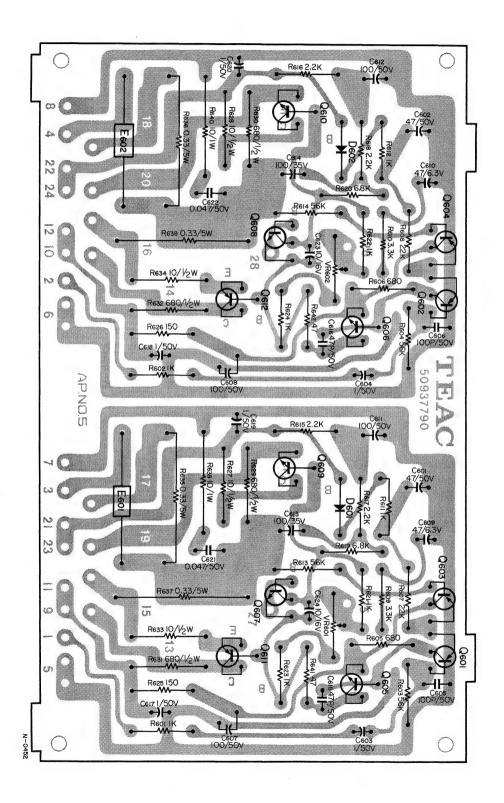
The following procedure must be carried out on each channel with the speaker terminals open, and with no signal applied to the input. A 100mA or higher meter is inserted between the power amplifier PC board and DC power supply line, and the trimmer resistor (VR601/602) on the PC board adjusted to obtain a 25mA reading. First set the trimmer fully counterclockwise and turn this until the meter indicates 25mA.

After adjusting one channel, turn off the AC power, connect the meter to other channel, apply the AC power and adjust as above. Special attention is required as follows.

- 1. Remove AC power to the amplifier before connecting or removing the meter from the circuit. Failure to do so may result in damage to transistors.
- 2. Make small adjustments to the trimmer resistor, do not move in large increments.



POWER AMPLIFIER



POWER AMPLIFIER

CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50937770 50937780	Power Amplifier Assy PC Board Assy, Power Amplifier		
E601/602	50937790 50920930 50928680 50938070 50938080 50928320	PC Board, Power Amplifier RL Unit Heat Sink, C, Power Amplifier Bracket, L, Heat Sink Mount Bracket, R, Heat Sink Mount Bracket, Power Ampl. PC Board		
	50434720 50452550	Assy Mount Socket, Transistor Terminal Strip, 1L2P Small		
	SILICONE TR	ANSISTORS		
Q601/602 Q603/604 Q605/606 Q607/608 Q609/610 Q611/612 Q613/614 Q615/616	50423531 50423531 50423570 50423380 50423570 50423650 50426040 50426040	2SA 561(Y) 2SA 561(Y) 2SC 497(Y) 2SC 373 2SC 497(Y) 2SA 497(Y) Power, 2SC 1030 (B) Power, 2SC 1030 (B)	*2SA493GR *2SA493GR	
	SILICONE DI	ODES		
D601/602	50422430	V06C		
D603/604	50422440	S3016(R)		

NOTE

*SERIAL NO. 0271 AND AFTER

red, 50424310 orange, 50424320 green, 50424330

See Power Amplifier Repairs, step 1 on page 21.

CONTINUE

POWER AMPLIFIER (CONTINUED)

CIRCUIT			1	OM
REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	RESISTORS			
ATT DECTOMA	RS IN OHM, 10%	TOLERANCE AND		
	LESS OTHERWISE			
1/4 WAII UN	OTHERWIDE	WOIED.		
R601/602	50513430	Carbon, 1k		
R603/604	50513990	Carbon, 56k	*50519590 1.8k	
R605/606	50513920	Carbon, 680	*50513990 56k	
R607/608	50513610	Carbon, 22k		
R609/610	50513960	Carbon, 3.3k		
R611/612	50513430	Carbon, 1k		
R613/614	50513990	Carbon, 56k		
R615/616	50513960	Carbon, 2.2k		
R617/618	50513960	Carbon, 2.2k		
R619/620	50519230	Carbon, 6.8k		
R621/622	50513430	Carbon, 1k		
R623/624	50513430	Carbon, 1k		
R625/626	50513320	Carbon, 150		
R627/628	50514100	Carbon, 10 1/2W		
R629/630	50514400	Carbon, 680 1/2W		
R631/632	50514400	Carbon, 680 1/2W		
R633/634	50514100	Carbon, 10 1/2W		
R635/636	50520050	Cement 0.33 5W		
R637/638	50520050	Cement 0.33 5W		
R639/640	50525460	Metal Oxide Film 10 1W		
R641/642	50519610	Carbon, 47		
	TRIMMER RES	ISTORS		
(01/600	50500600	Tile Comment Adingtoble		
VR601/602	50533690	Idle Current Adjustable, 5k ohm B		
		ok oum p		
•	0101077000			
	CAPACITORS	•		
ALL CAPACIT OTHERWISE N	PORS IN MICRO F. NOTED.	ARADS UNLESS		
C601/602	50554580	Electrolytic 47/50V		
C603/604	50554540	Electrolytic 1/50V		
C605/606	50543400	Dipped Mica 100p/50V		
C607/608	50554070	Electrolytic 100/50V		
C609/610	50554030	Electrolytic 47/6.3V		
C611/612	50554070	Electrolytic 100/50V		
C613/614	50554630	Electrolytic 100/35V		
C615/616	50543480	Dipped Mica 47p/50V		
C617/618	50554540	Electrolytic 1/50V		
C619/620	50554540	Electrolytic 1/50V		
C621/622	50548270	Mylar 0.047/50V		
C623/624	50554050	Electrolytic 10/16V		

POWER AMPLIFIER REPAIRS

A random DC voltage will appear at the speaker terminals if the power amplifier breaks down. Any load connected here, such as a speaker, may be burned out or output stage transistors damaged by the excess current which will flow. Ideally, or when the output stage is perfectly balanced, there should be no DC voltage across the speaker terminals, but permissible DC voltage is between 0 and ± 100 mV. If the voltage is beyond this limit, the DC balance must be restored to normal. In most cases, DC unbalance is due to transistor breakdown. This is because the power amplifying stage is a direct coupled amplifier. In the following description, the practical transistors repairs are described in order of susceptibility to breakdown. Thus, the transistors must be checked in this order and defective ones replaced, after which the no-load voltage at the speaker terminal is checked and the above procedure repeated until this voltage is reduced below the specified range. When conducting these tests, it is advisable not to connect any load to the speaker terminals so as to avoid over-loading and subsequent breakdown of transistors should the final stage still be imbalanced. After completing the repairs, adjust idle current as shown on page 17.

- 1. Q601.603 or Q602.604

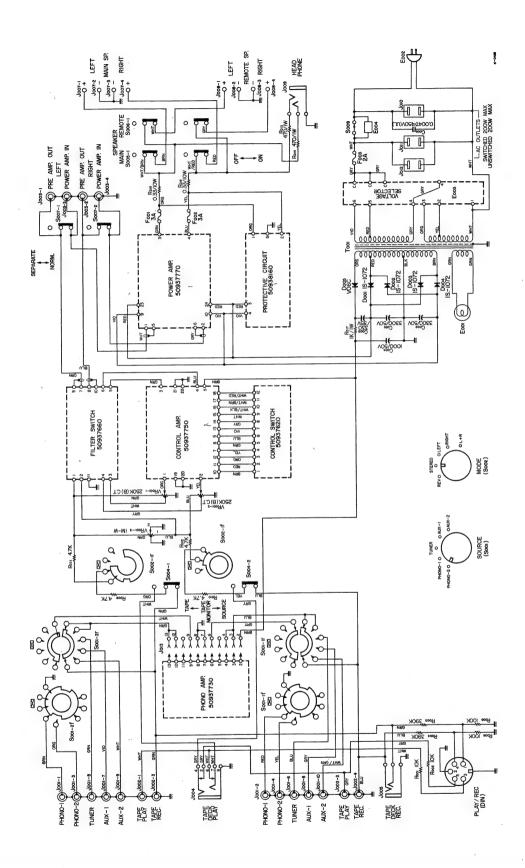
 If a random voltage at the speaker terminals exceeds the permissible range (0 to ±100mV) for either channel, transistors Q601.603 or Q602.604 must be changed.

 These transistors must be replaced with matched pairs of transistors having the same hFE value.

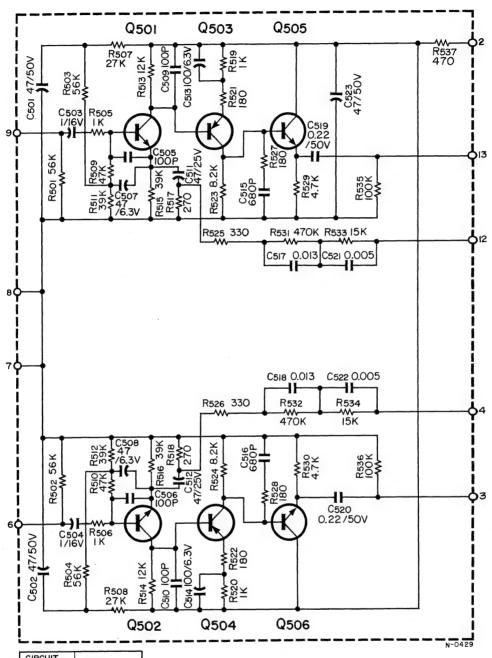
 Transistors are paired and color coded by gain factor(red, orange, green). Replace transistor pairs with a pair bearing the same color code as the originals. Color code will be found on top of the transistor case.
- 2. Q605 or Q606
- 3. Q609 or Q610
- 4. If after performing steps 1, 2 and 3 the voltage at speaker terminals is still excessive, replace all remaining transistors at the same time.
- 5. If speaker fuse blows, the most common causes are speaker leads shorted or DC voltage imbalance in power amplifier stages. Check speaker leads thoroughly before performing the above procedures.
- 6. Low output and increased distortion when volume is increased may be caused by thyristor(D751/752) failure in the electronic protective circuit. In this case, setting volume control to maximum will cause speaker fuse to blow.

SCHEMATIC DIAGRAM
AS-100

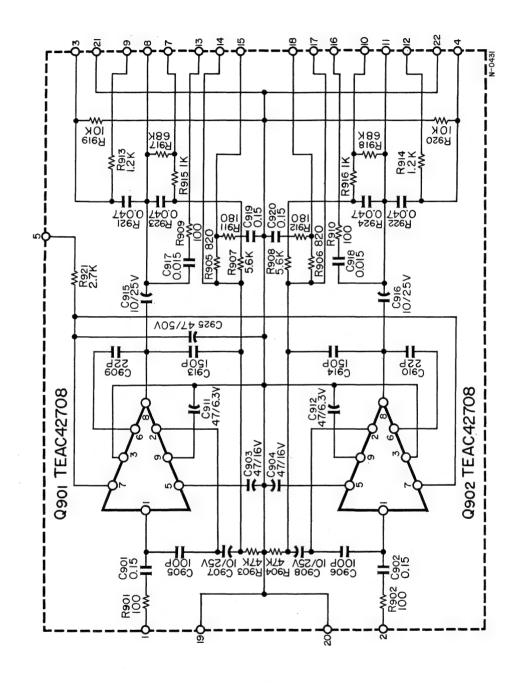
Specifications and components subject to change without notice.



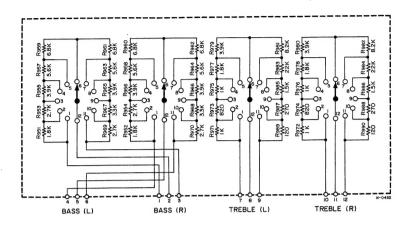
PHONO AMPLIFIER



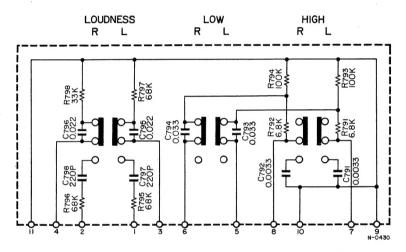
CIRCUIT REF NO.	DESCRIPTION
Q501/502	2SCI000-GR
Q503/504	2SA493-GR
Q505/506	2SC734-Y



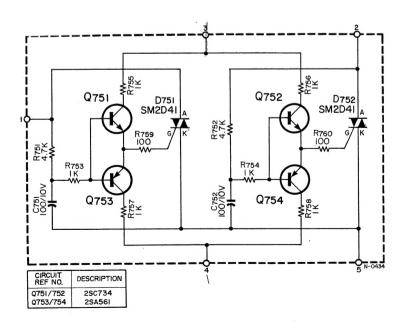
CONTROL SWITCH



FILTER SWITCH



PROTECTIVE CIRCUIT



Q613

Qeis

Q 616

Qei4

4

DC TEST VOLTAGES CHART

TRANSISTORS

TRANSISTOR	EMITTER	BASE	COLLECTOR
Q501/502 (2SC 1000-GR)	+11.3	+11.8	+33.8
Q503/504 (2SA 493-GR) Q505/506 (2SC 734-Y)	+34.6 +18.6	+33.8 +19.2	+19.2 +37.4
Q751/752 (2SC 734-Y) Q753/754 (2SA 561-Y)	0	0	+38.2
		. 0 . 01.0	
Q601/602 (2SA 561-Y)* Q603/604 (2SA 561-Y)*	+0.82 +0.82	+0.219 +0.235	-37.0 -37.6
Q605/606 (2SC 497-Y)*	-37.6	-37.0	-0.719
Q607/608 (2SC 373)* Q609/610 (2SC 497-Y)*	-0.569 +0.570	+0.091 +1.08	+1.08 +38.2
Q611/612 (2SC 497-Y)*	-0.03	-0.569	-37.7
Q613/614 (2SC 1030-B)*	-0.007	+0.570	+38.2
Q615/616 (2SC 1030-B)*	-38.2	-37.7	-0.002

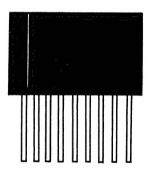
 $[\]star$ Power amplifier transistor

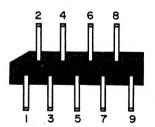
INTEGRATED CIRCUIT (Q901/902)

TERMINAL NO.	VOLTAGE
1	+0.56
2	+0.057
3	0
4	
5	+8.28
6	+3.41
7	+30.4
8	+18.3
9	+2.87

NOTE

- All voltages measured with a VTVM
 (vacuum tube voltmeter) at no signal.
- ·Power amplifier transistors measured at no signal and 8 ohm load at speaker terminals.
- ·Test voltages are average values.





D 0424

IC APPEARANCE

MANUAL CHANGES

Change notices, recommended modifications etc. will be issued for the models in this manual, when appropriate. This sheet is in loose leaf form and should be filed behind this page for convenient reference.

PARTS ORDERING INFORMATION

Replacement parts are available through your nearest TEAC dealer or directly from the TEAC office.

Changes are constantly being made to make TEAC products better and more reliable.

Therefore, when ordering parts, always include the following information:

MODEL

REF. NO.

PARTS NO.

DESCRIPTION